

After Final
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AMENDMENTS TO CLAIMS

1-64. (Canceled)

65. (Currently Amended) A speed-controlled dynamo-electric compound system, comprising:
at least one primary dynamo-electric unit (E101) arranged to rotate a shaft (S104 and/or S105);

at least one centrifugal clutch (FC101) having a driven side connected to the shaft (S104 and/or S105) and a driving side connected to an engine (ICE101), wherein rotation of said dynamo-electric unit at a preset speed causes said driven side of the clutch to engage said driving side and thereby connect said engine (ICE101) to said shaft (S104 and/or S105);

a load connected to said shaft (S104 and/or S105) through an output device;

a secondary dynamo-electric unit (E102) coupled to said engine (ICE101);

an electrical energy storage device (ESD101) connected between said secondary dynamo-electric unit (E102) and said primary dynamo-electric unit (E101); and

a controller,

wherein when said primary dynamo-electric unit (E101) is supplied with electricity from said electrical energy storage device (ESD101) and caused to rotate at below said preset speed, said dynamo-electric ~~device~~ unit drives said shaft (S104 and/or S105) to selectively drive said output device, and when said primary dynamo-electric unit (E101) is caused to rotate at above said preset speed, said driven side of said centrifugal clutch (FC101) engages said driving side, thereby connecting said engine (ICE101) to said primary dynamo-electric unit (E101),

wherein said controller includes a central control unit (CCU101), a drive control device (CD101) connected to said primary and secondary dynamo-electric units, and a manual control interface (M101), said drive control device (CD101) being arranged to control a speed of said primary dynamo-electric unit (E101), and further to control whether said primary and secondary dynamo-electric units function as motors, generators, or one of each.

66. (Previously Presented) A speed-controlled dynamo-electric compound system as claimed in claim 65, wherein said output device comprises an output transmission mechanism (T103).